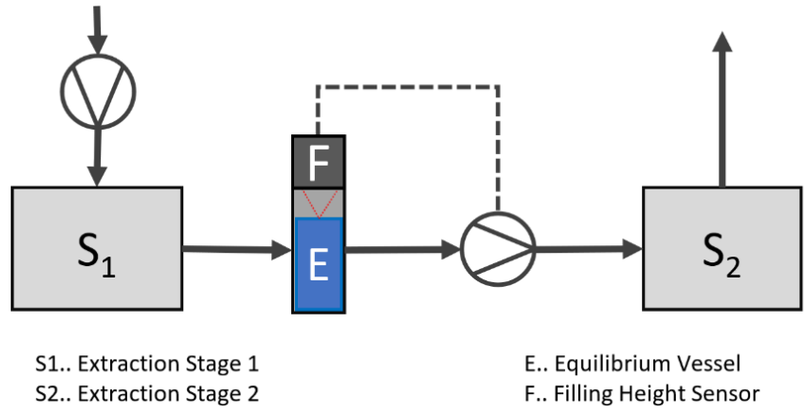
Development of a Filling Height Controller

In a counter-current operated extraction setup, using membrane separators, the filling height of an equilibrium vessel should be controlled. The task's difficulty lies in the requested size and the **automation** of the device. The vessel size should be 0.5 ml or smaller; automation of the pump settings is currently utilized by an **Arduino and the Python** serial module.

You will work on an already existing framework but refine the idea and integrate it into the extraction setup.

- **Possible Tasks are**
  - Design of a tailor-made **3D-printed auxiliary equipment** to measure the filling height of the equilibrium vessel (CAD drawing is not obligatory)
  - **Design your own control concept**. Control the filling height with a suitable approach and test it on the extraction skid
  - **Integration** of the device into the extraction setup



- Start: Right now
- Contact: martin.steinberger@tugraz.at, daniel.moser@rcpe.at